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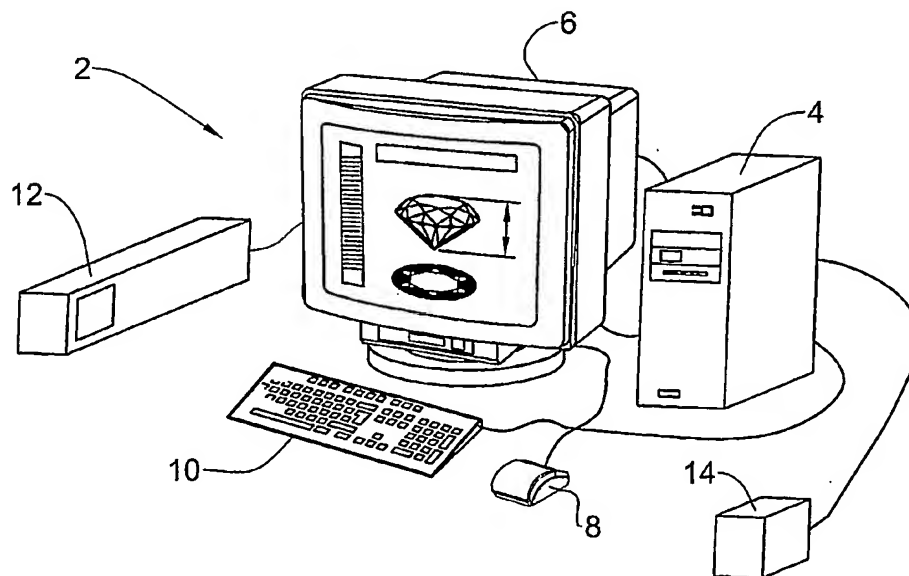
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(54) Title: **METHOD AND SYSTEM FOR PREDICTION THE COLOR OF GEMSTONES**



(57) Abstract: Predicting a first color of a cut gemstone a first geometry, from an uncut gemstone having a second color and a second geometry by means of a system comprising gemstone-mapping device for measuring the second geometry of the uncut gemstone, a spectral measurement device for measuring the second color of the uncut gemstone; and a processor adapted to determine an absorption coefficient of the uncut gemstone's material based on data from the gemstone-mapping and the spectral measurement devices, and on calculations relating to behavior of light in the uncut gemstone. The processor is adapted to deduce the first color based on the first geometry, the deduced coefficient and calculations relating to behavior of light in the cut gemstone.

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